# SAFETY, HEALTH, AND ENVIRONMENTAL MANAGEMENT PROTOCOL FOR FIELD ACTIVITIES

U.S. Environmental Protection Agency Research Triangle Park, North Carolina

#### **PURPOSE**

To ensure adequate review of safety issues and equipment to identify potential hazards and to verify establishment of contact with facility safety representative(s).

This protocol assumes that EPA personnel and their representatives will perform their facility visit escorted by a facility representative. This representative will be cognizant of the facility safety and emergency procedures, will provide to the EPA staff and representatives information on the essential facility safety and emergency procedures, and will remain with the EPA team while on site.

#### **PART I. PROJECT INFORMATION**

Project Title: Characterization of Air Emissions from Open Burning at Radford Army Ammunition Plant

Dates/Duration of Field Activity: September 8-19, 2015		ggillig ang parengan ngan g dana katapakan 1990-a sepa
Principal Investigator (PI): Dr. Brian Gullett	d tills of percental faith and	migrafia alte vingale d
Laboratory, Division, Branch:NRMRL/APPCD/IODD		non non en
Phone: Office: 919-541-1534 3074	Site (or Cell):	919-699-
Field Site Name/Address: Radford Army Ammunition Plant, Radford, VA		Charles and a
Site type: Military ammunition manufacturing facility (i.e., manufacturing plant, roadside, woods, contamination cleanup site, lake, etc.)		A Control of the Cont
OMIS Task # (if applicable):		and I state of the following of the state of
OMIS Title (if applicable):		
National Environmental Policy Act (NEPA) Requirements	min file life	Controls -
Will the project encounter / impact endangered species (plants / animals)?	Yes_xNo	The state of the s
Will the project encounter / impact any historic sites (burial grounds, mon	uments, etc.)?Yes	<u>No</u>
Will the project involve drilling, soil samples, or any soil impact?Yes _	xNo	
Will the project involve any potential uncontrolled impacts to water / air /	and/or discharges approac	hing regulatory limits?
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NOTE: If YES to any of the above, please contact your Division NEPA Officer to condu		
PI Signature:   Ph. Sullace Date:   (Principal Investigator must be an EPA employee)	9/8/15	
PI Signature: Date:		
APPROVALS OSO	919/10	

C. Location(s) where work will be conducted (include site name and address)

**FAP 818** 

Sampling	Physical	Sunburn		Hats, sunscreen
				स्वेत्राच्यां करणकार का महत्त्व व्हास्त्र स्व
Ash collection	Chemical	Inhalation	Minimal ag	Mas with pink cartridge
			si libe virile s	man ya tafashi ada kuman
Sampling	Physical	Noise (up to 75 dB)	Distance	Ear plugs

\*When respirator is checked, personnel using respirators must have been properly trained and fitted for the respirator within the past twelve months. Individuals using a respirator must be enrolled in the Respiratory Protection Program to remain eligible to wear respiratory protection equipment of any kind. - Indianag kan dalah kan dalah dalah berakan dalah berakan dalah berakan dalah berakan dalah berakan dalah ber 1. Identify any locations on the site that EPA personnel are restricted from entering. (Note: Employees are not authorized to enter confined spaces.) Burn pan area during ignition. Site is controlled by Radford personnel. 2. Identify any pre-field visit vaccinations that are necessary. \_\_\_ Tetanus \_\_ Hepatitis A (wastewater) \_\_ Hepatitis B (blood, body fluids) \_\_\_\_Other \_\_\_x\_\_ None Required 3. Describe the level of physical exertion required: \_\_ Low (Office work) \_\_x\_\_\_ Moderate (Frequent walking) \_ High (Frequent climbing, lifting) В. Toxicity of Materials to be Used 1. Will any chemical materials be used that are considered hazardous agents by the ORD SHEM Office? A hazardous agent, as defined by the ORD SHEM Office, a hazardous agent exhibits one or more of these characteristics:

- Has an LD50 (oral, rat) < 50 mg/kg body weight
- Has an inhalation LC50 toxicity (rat) < 2mg/liter or < 200 ppm</li>
- Has a dermal LD50 toxicity (rabbit) < 200 mg/kg</li>
- Has an occupational exposure limit (OSHA, NIOSH or ACGIH) ≤ 1 ppm
- Causes teratogenic or mutagenic effects (in humans or animals)
- Is an infectious biological agent (as defined by CDC and/or NIH)

- Is an explosive or violently reactive agent (shock sensitive, peroxide forming, and/or incompatible with moisture/air)
- Is a sensitizing agent
  - Nanoparticle research involving the use or manufacture of particles (Bucky balls, nano tubes, quantum dots, etc.) that is not contained in solution and/or with the possibility of airborne exposure.
- Is an agent whose toxicological characteristics are unknown, but it is suspected of meeting one of the above criteria.

*EXCEPTION: Standards ordered from vendors in s	sealed vials or	r ampoules that are i	used directly	in labo	ratory instrumenta	ation
						************
are exempt even if they meet the above criteria.	İ					
	4.					

Yes	_x	No	If	yes,	list	in	the	tab	e l	belo	WC	r:

#### C. Hazardous Agent(s):

Provide the following information for any hazardous agent that will be taken into the field by EPA personnel.

Chemical Name	CAS No.	Physical Form	Quantity Taken in Field	Condition / Method of Storage and Transport	DOT Labeling Requirements (Contact ORD SHEM Office for assistance at 1-2613)
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		Service States			\$
		:			Name 28
NOTIFICATION OF THE PROPERTY O		- Aug 100 wilder			

<sup>\*</sup>Attach a copy of Material Safety Data Sheet (MSDS) for each chemical listed above, or a copy of information found in NIOSH Registry of Toxic Effects of Chemical Substances

### D. Hazardous Waste Disposal

(Fill out the following information <u>only if</u> you are taking materials into the field and anticipate generating waste materials that <u>must</u> be returned to an EPA facility.)

				S. San Care and S. San Care an
Type of Waste	Waste Volume	Time Period (e.g.,	Any unused stock?	If unused stock, will
Generated		weekly solvent waste)	( <u>ves</u> or <u>no</u> )	it be <u>kept</u> on site or
				<u>disposed of?</u>

Insect stings, bites, etc.

Phone #:

Hospital: \_\_\_\_\_ Address: \_\_\_\_

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No hazardous waste being generated.	
Free to sensitive the sensitive to the s	
PART IV. EMERGENCY PROCEDURES	year a dannear 1980 teathain graddig 200
This information must be coordinated with representatives f by the site personnel.	rom the field site. This refers to the emergency procedures dictated
A. In the event of an accident or chemical/biologica	l spill:
<ol> <li>Describe procedures in event of personal expos corrosives, etc.):</li> </ol>	ure (inhalation, ingestion, inoculation, asphyxlates, flammables,
EMS and Fire Dept. on site. 540-639-7323. All per	sonnel will program into their mobile phones.
Describe plans for containment to prevent spre- procedures and monitoring methods to assure dec	ad of the agent from the immediate area, decontamination contamination.
NA	and the second s
3. Describe the procedures for emergency evacuat	tion of the facility.
To be briefed prior to work initiation; also daily Sa	fety Briefing.
B. In the event of a medical emergency:	
1. Emergency phone number (is 911 available or d	oes facility have its own medical emergency number)?
EMS and Fire Dept. on site. 540-639-7323. All per	sonnel will program into their mobile phones.
2. Is response by EMS available?Yes	No.
<ol> <li>Include the hospital name, address, phone num available to provide emergency transportation.</li> </ol>	ber and location relative to the site if EMS crew will not be
Hospital: New River Valley Medical Center, 29 Medical Center	00 Lamb Circle, Christiansburg, VA 24073 (540-731-2000)
*Please attach (copy and paste) map or directions for first re	esponse hospital closest to site:
<ol> <li>Is first response hospital equipped to handle:</li> <li>Burns?</li> </ol>	
Chemical splashes (skin, eye, respiratory)?  Chemical burns?	
Severe Trauma?	nalita sama nel (1861) del mente (política indica) meneralità del color a mante

If the answer to any of the above is no, designate an alternate facility that can handle these types of injuries.

Notes

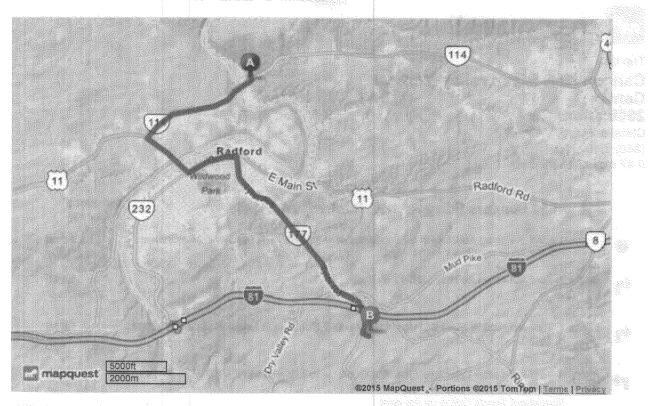


9.47 miles / 15 minutes

mapquesti	
Trip to:	
Carilion New River Valley Medical	
Center	
2900 Lamb Cir	
Christiansburg, VA 24073	
(540) 731-2720	
0.47	

	9	4050 Peppers Ferry Rd NW, Radford, VA 24141	Download Free App
		1. Start out going southwest on Peppers Ferry Rd NW / VA-114 toward Riverview Rd. Continue to follow VA-114. Map	<b>2.5 Mi</b> 2.5 Mi Total
9	(11)	2. Turn left onto Lee Hwy / US-11 N. Map	<b>1.1 Mi</b> 3.6 Mi Total
n	(11)	3. Turn left onto W Main St / US-11 N / VA-232. Continue to follow W Main St / US-11 N. Map	<b>1.0 Mi</b> 4.6 Mi Total
	<b>@</b>	4. Turn <b>right</b> onto <b>Tyler Ave / VA-177</b> . Continue to follow <b>VA-177</b> . Map VA-177 is 0.2 miles past 3rd Ave Screamers Sports Grill is on the right If you reach University Dr you've gone about 0.3 miles too far	<b>4.3 Mi</b> 8.9 Mi Total
1		5. Stay straight to go onto Tyler Rd. Map	<b>0.4 Mi</b> 9.3 <i>Mi Total</i>
1		6. Turn <b>left</b> onto <b>Lamb Cir</b> . <u>Map</u> Lamb Cir is just past Whiffletree Ln  If you reach Whiffletree Ln you've gone about 0.1 miles too far	<b>0.1 Mi</b> 9.5 Mi Total
		7. <b>2900 LAMB CIR</b> is on the <b>left</b> . <u>Map</u> Your destination is at the end of Lamb Cir	
	8	Carilion New River Valley Medical Center 2900 Lamb Cir, Christiansburg, VA 24073 (540) 731-2720	

## Total Travel Estimate: 9.47 miles - about 15 minutes



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